

In the Abstract

Please substitute the following amended Abstract for the Abstract as currently pending (deleted matter is shown by strikethrough and added matter is shown by underlining):

A multi-photon fluorescence microscope [(M)] with an excitation beam path comprising an objective [(2)] which focuses excitation radiation [(1)] in a focal point [(4)] in the sample [(5)], a scanning unit which shifts the focal point [(4)] at least one-dimensionally, and a detecting unit which picks up luminescence radiation stimulated in the sample by multi-photon excitation is described, wherein the detecting unit comprises an area detector [(9)] which is located on the side of the sample [(5)] opposite to the objective [(2)].